

Bringing Evidence to Practice: Implementing Delirium Care in the Era of the Age-Friendly Health System

Presenters: Esther Oh, MD, PhD, Christine Waszynski, DNP, APRN, GNP-BC FAAN, and Emily Carter, MD

Time	Section
02:33	<u>Introductions (Order of presenters: Esther Oh, Christine Waszynski, and Emily Carter)</u>
05:30	<u>World Delirium Awareness Day (WDAD)</u> <ul style="list-style-type: none"> • Delirium in a more global way • March 15th, 2023 (over 36,000 delirium screening over several countries) • WDAD US stats and info
06:41	<u>The Scale of Problem</u> <ul style="list-style-type: none"> • 34 million hospitalizations in 2021 <ul style="list-style-type: none"> ○ 13.2 million in older adults ≥ 65 • Upwards of 2.4 million adults ≥ 65 experience delirium • One older adult develops delirium every 5 minutes
07:25	<u>Harnessing the Momentum of a Social Movement Age-Friendly Health System (AFHS)</u> <ul style="list-style-type: none"> • John A. Hartford Foundation and Institute for Healthcare Improvement • An essential set of evidence-based practices which causes no harm and aligns with What Matters to the older adults (4Ms- What Matters, Medication, Mind, and Mobility) • Two key drivers of AFHS—Assess and Act On • Opportunities and Synergism <ul style="list-style-type: none"> ○ American Hospital Associations (AHA) Hospital Statistics 2023 <ul style="list-style-type: none"> ▪ Total number of all US hospitals: 6,129 ○ Institute for Healthcare Improvement (IHI) has recognized 3,400 hospitals as Age-Friendly Health Systems as of October 2023
09:19	<u>Integration of Age-Friendly Concepts into the ADAPT Program</u>
09:53	<u>ADAPT- Making Delirium Awareness a Priority</u> <ul style="list-style-type: none"> • Began in 2011 • Supported by hospital administration • Inter-professional team (representation across departments and disciplines n=42) • Plan for structure (delirium care pathway) • Build supports in HER to guide documentation and gather data • Education (classroom/CESI/bedside) • Adjunct Support (volunteer programs; therapeutic activities) • Quality/research/feedback
11:18	<u>Building Blocks For A Delirium Program</u> <ul style="list-style-type: none"> • AFHS (2018), ADAPT (2011), NICHE (2003)
12:10	<u>Strategies for Buy-in for Age-Friendly Delirium Care</u> <ul style="list-style-type: none"> • Define how the 4 Ms framework of delirium care <ul style="list-style-type: none"> ○ Aligns with organization's mission/vision and values ○ Fits into the balanced score card and quality measures ○ Promote optimal wellness/recovery and eliminate patient harm ○ Provide optimal patient/family experience ○ Support the staff ○ Seek executive sponsors from various disciplines ○ Identify existing resources ○ Geriatric and psych liaison services ○ Active volunteer department ○ Available data and research expertise identify opportunities

	<ul style="list-style-type: none"> ○ Philanthropy ○ Use own data to demonstrate issues and impact over time ○ Involve front line staff in identifying the issues and solutions
14:52	<p><u>Screening for Delirium is the Key to Prevention</u></p> <ul style="list-style-type: none"> ● Screening starts in the Emergency Department where all persons 65 and older are assessed and triaged with SQID question and attentional test ● All patients admitted to Hartford Hospital are screened by their nurse each shift (3 or more times daily utilizing the CAM or CAM-ICU) for the duration of their stay and have prevention strategies employed for those at high risk of delirium ● Once an abnormal screen is identified, protocols guide evaluation and management ● This process has allowed us to create a registry of patients based upon their screening results ● Since the start of this project 12 years ago, we have screened over 450,000 patients, with over 7 million assessments completed
17:07	<p><u>Delirium Rates Vary by Service (ADPAT data)</u></p> <ul style="list-style-type: none"> ● Data to show that delirium was a problem at Hartford Hospital—CAM rates for surgical patients (19%) ● Delirium has Serious Consequences <ul style="list-style-type: none"> ○ Medical and surgical patients for length of stay: 3x longer with delirium than without and mortality rate is higher ● Delirium Patients Have Poorer Outcomes at Care Transition <ul style="list-style-type: none"> ○ Very high significant death rates
19:34	<p><u>Delirium Increases Healthcare Costs</u></p> <ul style="list-style-type: none"> ● Nationally <ul style="list-style-type: none"> ○ Hospital cost > \$8 billion annually ○ Post-hospital costs ~ \$100 billion; direct and indirect (SNF & Home Care) ● At Hartford Hospital (ADAPT data): attributable cost July 2015- June 2016 <ul style="list-style-type: none"> ○ 35,700 delirium attributable hospital days ○ Total attributable cost estimate \$96 million ○ 2000 patients D/C to SNF were attributable to delirium
20:30	<p><u>Delirium is Associated with Higher Costs for Colon Surgery (ADAPT data)</u></p> <ul style="list-style-type: none"> ● Found \$573 additional dollars per day due to delirium
21:09	<p><u>Application of Universal Evidence-Based Best Practice Strategies</u></p> <ul style="list-style-type: none"> ● Information in Patient Handbook—patient and family to report S/S of delirium promptly. Family encouraged to participate in care ● Delirium assessment integrated into rounds and handoffs ● Early mobilization/noise reduction/sleep enhancement efforts ● Personalized care “Hartford HealthCare Cares About Me” poster ● Creation of sensory modulation room for patients and families ● Volunteer programs that focus efforts towards patient experiencing or at high risk for delirium <ul style="list-style-type: none"> ○ Keeping in touch volunteer visiting program, meal mates, activity cart, safety volunteers, mobility volunteers ● Activated HER alerts on medications that may cause delirium ● Standardized provider order sets ● Nurse experts/consultants to coach frontline staff at the bedside ● Provide data driven feedback to change practice
25:22	<p><u>Wear and Tear Pathway (guide)</u></p> <ul style="list-style-type: none"> ● Large flowchart diagram ● Resource guide
26:39	<p><u>Delirium Attributable Days</u></p>

	<ul style="list-style-type: none"> • Outcomes of how successful the program was • When added Age-Friendly, additional decrease in CAM+ days • ROI Calculator applied to ADAPT <ul style="list-style-type: none"> ○ Estimated cost savings or cost avoidance of \$6.5 million annually attributable to the ADAPT program
28:21	<p><u>Additional Quality Measures to Track</u></p> <ul style="list-style-type: none"> • Process Measures: <ul style="list-style-type: none"> ○ Mobility (ambulation), Accuracy of delirium screening, Avoidance of deliriogenic medications, Use of one-to-one sitters, Opportunities for family caregivers, Use of non-pharmacological interventions • Outcome Measures: <ul style="list-style-type: none"> ○ Preventable falls with injury, Delirium rates, Restraint use, Length of stay, Mortality rates, Discharge Disposition (home vs. facility), Unintentional weight loss, Patient & family satisfaction
29:49	<p><u>Barriers and Approaches</u></p> <ul style="list-style-type: none"> • Barriers: <ul style="list-style-type: none"> ○ Failure to appreciate delirium as prevalent and costly ○ Failure to make delirium prevention, detection and action a priority ○ Time and resource constraints to implement non-pharmacological interventions • Approaches: <ul style="list-style-type: none"> ○ Implement universal delirium screening and analyze facility data ○ Implement a delirium care pathway with coaching and accountability ○ Recruit volunteers; philanthropic funds to purchase items; supply chain integration; bedside experts to coach staff
32:19	<p><u>Summary</u></p> <ul style="list-style-type: none"> • Link 4M based Delirium Care to organizational goals • Involve executive sponsors to demonstrate organizational commitment • Use your data to identify the impact of delirium • Use your data to demonstrate improvement in quality measures • Support your staff with resources required for excellent delirium care • Celebrate successes!
33:06	<p><u>Implementing the 4Ms: Specialized Care to Sustainable Systems</u></p>
33:32	<p><u>Background</u></p> <ul style="list-style-type: none"> • Maine is the oldest state in the nation according to the US Census Bureau, with 22.5% of the population over 65 years of age (2022) <ul style="list-style-type: none"> ○ Projected to increase over time • In FY19, MMC saw just under 13,000 patients age 65 and older, a 2% increase from FY18 • We need a way to provide consistent, best practice to all older adults who enter our health system
34:57	<p><u>Age-Friendly Health Systems Journey at Maine Health</u></p> <ul style="list-style-type: none"> • Began in 2018 and continues • Starts with HELP <ul style="list-style-type: none"> ○ Hospital Elder Life Program ○ Maine Medical Center <ul style="list-style-type: none"> ▪ 627-bed teaching hospital in Portland, ME ▪ HELP established in 2002, Center for Excellence in 2010 ○ Southern Maine Healthcare <ul style="list-style-type: none"> ▪ 150-bed community hospital in Biddeford, ME ▪ HELP established in July 2021
38:23	<p><u>Assess: What are we already doing?</u></p>

	<ul style="list-style-type: none"> • Crosswalk→ knew they were working with mentation, medications, mobility, and address what matters (this piece they started to build)
40:14	<p><u>Act On: What Matters</u></p> <ul style="list-style-type: none"> • Developed What Matters tool incorporated into all stages of care • EPIC can incorporate Age-Friendly care into routine care
41:36	<p><u>Next Steps</u></p> <ul style="list-style-type: none"> • Assess: Geriatrics Scorecard • Act On: Partnership development (Trauma, Cardiology, emergency Medicine, Adult Medicine); Interdisciplinary Engagement (providers, pharmacy, nursing, therapy, SW, care)
45:58	<p><u>Tool Kit</u></p> <ul style="list-style-type: none"> • Age-Friendly Health Systems <ul style="list-style-type: none"> ○ Working with many departments and developed many materials
46:31	<p><u>What Matters Tools</u></p> <ul style="list-style-type: none"> • Table of tools developed to address the What Matters aspect <ul style="list-style-type: none"> ○ What Matters flow sheet, EPIC Dotphrase, MH Nursing Home Smartblock (EPIC smartblock), What Matters documentation
48:13	<p><u>Mobility Tools</u></p> <ul style="list-style-type: none"> • Table of tools developed to address the Mobility aspect <ul style="list-style-type: none"> ○ BMAT, Ambulation, etc.
49:05	<p><u>Medication Tools</u></p> <ul style="list-style-type: none"> • Table of tools developed to address the Medication aspect <ul style="list-style-type: none"> ○ Several video modules, ongoing education, etc.
49:26	<p><u>Mentation Tools</u></p> <ul style="list-style-type: none"> • Table of tools developed to address the Mentation aspect <ul style="list-style-type: none"> ○ CAM assessments, delirium posters, etc.
50:34	<p><u>Sustainable Systems</u></p> <ul style="list-style-type: none"> • Flowchart • Using EMR is a huge part of this • Use these tools for medications all the time
52:18	<p><u>Age Friendly Order Sets</u></p> <ul style="list-style-type: none"> • Developed for a doctor to use for his patients and hopes to use across surgical services
53:38	<p><u>Take Aways</u></p> <ul style="list-style-type: none"> • Age Friendly care IS delirium prevention; Delirium prevention IS Age Friendly care • Start where you are, take your easy wins, gain momentum • Assess and Act On the needs of your clinical partners • Build systems to support sustainability (make it easy) • Resources for support: <ul style="list-style-type: none"> ○ Institute for Healthcare Improvement (IHI) (including Action Communities) ○ John A. Hartford Foundation ○ American Geriatrics Society, including Age Friendly Resource Library ○ American Delirium Society
55:11	<p><u>Questions and Answers</u></p>